

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. A light source driving method ~~of for~~ for a projector ~~for projecting~~ that projects an image, ~~wherein control of comprising:~~  
~~controlling a driving waveform for supplying to supply~~ electric power to a light source ~~and control for:~~  
~~controlling receiving said the projected image and obtaining image data to adjust said the projected image are synchronized; and~~  
~~synchronizing the controlling steps.~~
2. The light source driving method of the projector according to claim 1, ~~wherein the light source driving method comprises a synchronous signal generating process for generating a signal as an operation reference, and the projector including~~ a light source driving section for supplying the electric power for operating the light source, and an image obtaining section for receiving ~~said the projected image and obtaining the image data to adjust said the projected image are operated in synchronization with said signal generated in said synchronous signal generating process;~~  
~~the method further including generating, via a synchronous signal generating process, a signal as an operation reference, and operating the light source driving section and the image obtaining section in synchronization with the signal generated in the synchronous signal generating process.~~
3. The light source driving method of the projector according to claim 1 or 2, ~~wherein the method further including:~~

obtaining, with the said-image obtaining section, obtains saidthe image data in a period of the same driving waveform in synchronization with the control of the driving waveform for supplying the electric power to saidthe light source, and

saidchanging, with the light source driving section, changes an electric current while lighting saidthe light source after saidthe image obtaining section obtains saidthe image data.

4. A projector for projecting an image, wherein comprising:

a controller that synchronizes control of a driving waveform for supplying electric power to a light source andwith control forof receiving saidthe projected image and obtaining image data to adjust saidthe projected image are synchronized.

5. The projector according to claim 4, wherein

the projector comprisesfurther including:

thea light source for emitting that emits light;

a light source driving section for supplying that supplies the electric power for operatingto operate the light source;

an image obtaining section for receiving saidthat receives the projected image and obtainingobtains the image data to adjust saidthe projected image; and

a synchronous signal generating section for generating that generates a signal as an operation reference; and

said, the synchronous signal generating section generatesgenerating a first operation signal for determiningto determine operation timing of an electric current output of saidthe light source driving section, and a second operation signal for determiningto determine operation timing for receiving saidthe projected image and obtaining the image data by saidthe image obtaining section, and said;

\_\_\_\_\_ the light source driving section and said the image obtaining section are being synchronously operated.

6. The projector according to claim 4 or 5, wherein

\_\_\_\_\_ said the image obtaining section obtains said obtaining the image data in a period of the same driving waveform in synchronization with the control of the driving waveform for supplying the electric power to said the light source, and

\_\_\_\_\_ said the light source driving section changes changing an electric current while lighting said the light source after said the image obtaining section obtains said the image data.